

D-2973

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT

In re application of:)
Robert T. Lyons)
Serial No. Not yet assigned)
Dated: Herewith)
For:USE OF ANTIMICROBIAL PEPTIDES)
AS PRESERVATIVES IN OPHTHALMIC)
PREPARATIONS, INCLUDING)
SOLUTIONS, EMULSIONS, AND)
SUSPENSIONS)

ENTRY OF SEQUENCE LISTING

Commissioner for Patents
Washington, DC 20231

Dear Sir:

Attached is the "Sequence Listing" which complies with the requirements of 37 CFR 1.821-1.825, for the above-identified application, in computer readable form (CRF) and paper form. The contents of the paper and computer readable copies are the same and include no new matter.

Respectfully submitted,



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(949) 450-1750
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100-25470650

SEQUENCE LISTING

<110> Lynos, Robert T

<120> Use of ANtimicrobial Peptides as Preservatives in
Ophthalmic Preparations, Including Solutions,
Emulsions, and Suspensions

<130> 2973 ver 2

<140> not known

<141> 2001-05-30

<150> WO 96/25183

<151> 1996-08-22

<160> 14

<170> PatentIn Ver. 2.1

<210> 1

<211> 23

<212> PRT

<213> Xenopus laevis

<300>

<301> Lee et al.,

<302> High-Level Expression of Antimicrobial Peptide Mediated
by a Fusion Partner Reinforcing Formation of Inclusion
Bodies

<303> Biochem. Biophys. Res. Commun.

<304> 277

<306> 575-580

<307> Sept 21, 2000

<400> 1

Gly Ile Gly Lys Phe Leu His Ser Ala Gly Lys Phe Gly Lys Ala Phe

1

5

10

15

Val Gly Glu Ile Met Lys Ser

20

<210> 2

<211> 23

<212> PRT

<213> Xenopus laevis

<400> 2

2001-05-30

Gly Ile Gly Lys Phe Leu His Ser Ala Lys Lys Phe Gly Lys Ala Phe
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Val Gly Glu Ile Met Asn Ser

20

<210> 3
 <211> 22
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 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (22)
 <223> Xaa at position 22 is Lys-amide

<220>
 <223> Description of Artificial Sequence: maginin analog

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Val Lys Ile Leu Lys Xaa

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<210> 4
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<220>
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Val Lys Ile Leu Lys Lys

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 <211> 37

202503240650

<212> PRT
 <213> silk moth

<400> 5

Lys Trp Lys Leu Phe Lys Lys Ile Glu Lys Val Gly Gln Asn Ile Arg

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Asp Gly Ile Ile Lys Ala Gly Pro Ala Val Ala Val Val Gly Gln Ala

20 25 30

Thr Gln Ile Ala Lys

35

<210> 6
 <211> 36
 <212> PRT
 <213> silk moth

<400> 6

Lys Trp Lys Val Phe Lys Lys Ile Glu Lys Met Gly Arg Asn Ile Arg

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Asn Gly Ile Val Lys Ala Gly Pro Ala Ile Ala Val Leu Gly Glu Ala

20 25 30

Lys Ala Leu Gly

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 <211> 38
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: analog of
 cecropin B

<400> 7

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Ile Lys Gln Gly Ile Leu Arg Ala Gly Pro Ala Ile Ala Leu Val Gly

FOET20.E5440550

30

35

20 25 30

20 25

20 25 30

<210> 11
 <211> 33
 <212> PRT
 <213> rabbit

<400> 11
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 Ala Gly Phe Cys Arg Ile Arg Gly Arg Ile His Pro Leu Cys Cys Arg
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 Arg

<210> 12
 <211> 11
 <212> PRT
 <213> cow

<400> 12
 Arg Leu Cys Arg Val Val Ile Arg Val Cys Arg
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<210> 13
 <211> 26
 <212> PRT
 <213> Artificial Sequence

<220>
 <221> PEPTIDE
 <222> (26)
 <223> Xaa at position 26 is Ser-amide

<220>
 <223> Description of Artificial Sequence: Hybrid
 antimicrobial peptide

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 Leu Thr Thr Gly Leu Pro Ala Leu Ile Xaa
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20250420 15:40:50

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